

wherein a clearance is formed between the heater and the internal electrode,  
the clearance being 0.1 mm or more.

Claim 15, line 2, delete "0.3 or" and after "more" insert --than 0.6--.

Claim 21, line 9, change "a predetermined value" to --10 percent--.

Sub 13  
31. (Amended) An oxygen concentration detector comprising:  
a sensor element including a solid electrolyte and external and internal electrodes  
provided on external and internal surfaces thereof, respectively;  
a heater disposed [inside] at an inner side of said internal electrode to be adjacent to  
said internal electrode;

12  
a first high-emissivity layer provided on a surface of said heater; and  
a second high-emissivity layer provided on a surface of said internal electrode,  
wherein:  
said internal electrode has an emissivity less than 0.3;  
each of said first high-emissivity layer and said second high-emissivity layer has an  
emissivity of 0.3 or more, and a porosity more than a predetermined value; and  
said first high-emissivity layer is separated from said second high-emissivity layer to  
form a clearance therebetween, the clearance being 0.1 mm or more.

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32. (Amended) An oxygen concentration detector comprising:  
a sensor element including a solid electrolyte and external and internal electrodes  
provided on external and internal surfaces thereof, respectively; and

a heater disposed adjacent to said internal electrode to form a clearance therebetween,  
the clearance being 0.1 mm or more;

12 wherein said heater [substantially consists of at least one material selected from a  
group consisting of silicon nitride, aluminum nitride and silicon carbide] has an emissivity of  
0.6 or more.

13 18 34 (Amended) An oxygen concentration detector according to claim 32, wherein  
said heater consists of [a material having an emissivity of 0.6 or more] at least one material  
selected from a group consisting of silicon nitride, aluminum nitride and silicon carbide.

14 21 38 (Amended) An oxygen concentration detector comprising:  
a sensor element including a solid electrolyte and external and internal electrodes  
provided on external and internal surfaces thereof, respectively; and  
a heater disposed adjacent to said internal electrode;  
a high-emissivity layer provided on a surface of said internal electrode to form a  
clearance between said heater and said high-emissivity layer, the clearance being 0.1 mm or  
more,  
wherein said high-emissivity layer has an emissivity higher than that of said external  
electrode,  
wherein said high-emissivity layer has a porosity of more than 10 percent.

**REMARKS**

Reconsideration and allowance in view of the foregoing amendment and the following  
remarks are respectfully requested.